

In the claims:

Please amend the claims as follows:

1-7. (Cancelled)

8-25. (Cancelled)

26. (Withdrawn) A method of producing a polypeptide, the method comprising culturing the cultured host cell of claim 20 under conditions that permit expression of the polypeptide in the cell.

27. (Withdrawn) A method for identifying a compound that modulates a G protein-coupled receptor activity, comprising the steps of:

- a) contacting a polypeptide of claim 1, or a cell transected with a nucleic acid encoding the polypeptide of claim 1, with a test compound;
- b) determining whether the test compound modulates a G protein-coupled receptor activity of the polypeptide or cell,
thereby identifying a compound that modulates a G protein-coupled receptor activity.

28. (Withdrawn) The method of claim 27, wherein the G protein-coupled receptor activity is histamine binding.

29. (Withdrawn) The method of claim 27, wherein the G protein-coupled receptor activity is changing cellular cAMP concentration, changing cellular calcium concentration, activating a G protein, activating phospholipase C, or changing intracellular pH.

30. (Cancelled)

1 21. (Original) A substantially pure polypeptide, the sequence of which consists of SEQ ID NO:20 or 25.

32-35. (Cancelled)

3 36. (New) A substantially pure polypeptide comprising the amino acid sequence of SEQ ID NO:20 or 25, with up to 3 conservative amino acid substitutions.

5 37. (New) A substantially pure polypeptide comprising an amino acid sequence at least 99% identical to SEQ ID NO:20 or 25.

7 38. (New) The polypeptide of claim 36 or 37, wherein said polypeptide has seven transmembrane regions and the activity of a G protein-coupled receptor protein.

8 39. (New) The polypeptide of claim 38, wherein the G protein-coupled receptor protein activity is binding to histamine.

9 40. (New) A substantially pure polypeptide comprising the amino acid sequence of SEQ ID NO:20 or 25.

2 41. (New) A kit comprising the polypeptide of claim 31 and instructions for use in a method of screening a compound that modulates a G protein-coupled receptor activity of the polypeptide.

4 42. (New) A kit comprising the polypeptide of claim 36 and instructions for use in a method of screening a compound that modulates a G protein-coupled receptor activity of the polypeptide.

6 43. (New) A kit comprising the polypeptide of claim 37 and instructions for use in a method of screening a compound that modulates a G protein-coupled receptor activity of the polypeptide.

Applicant : Hiraku Itadani et al.
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10 44 (New) A kit comprising the polypeptide of claim *40* and instructions for use in a method of screening a compound that modulates a G protein-coupled receptor activity of the polypeptide.

9